

Fig.28

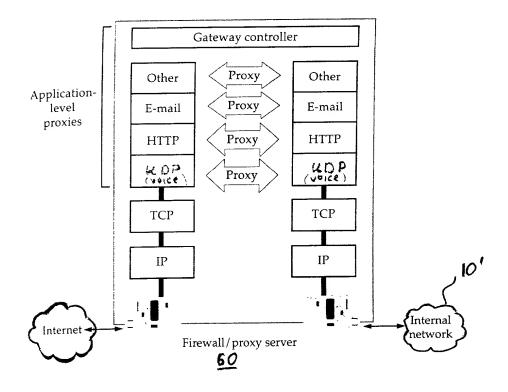


Fig. 2c

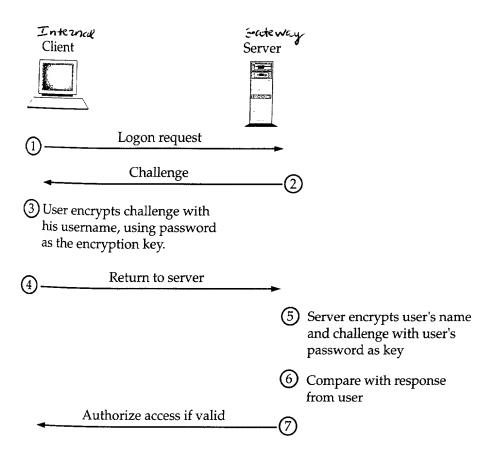


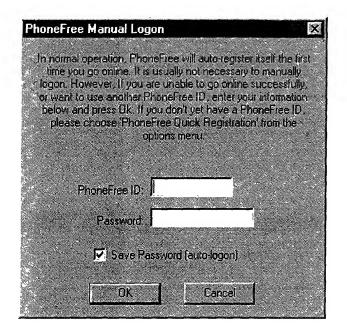
Fig. 2d

PhoneFree registration page can be found at: <a href="http://phonefree.com/install/addquickform2.html">http://phonefree.com/install/addquickform2.html</a>

Partial screen shot

PhoneFree.com Su	rvey - Micros	oft Internet				
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Fig. 3a



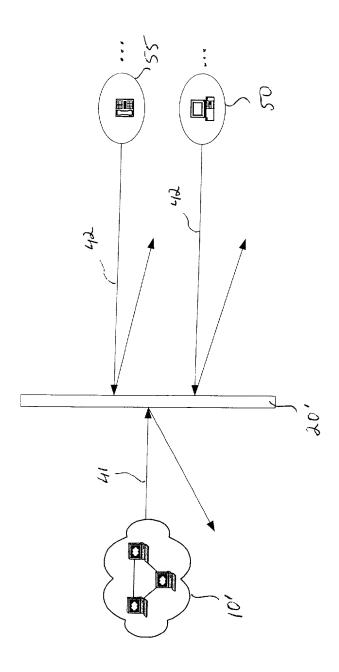


Fig. 4a

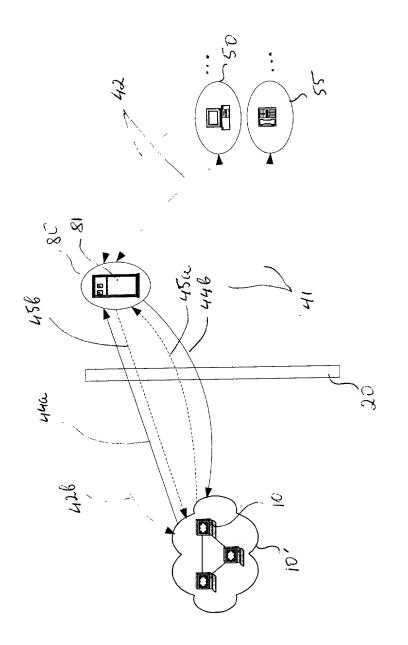


Fig. 4b

### **CALLER** be received, but can send UDP. A client that cannot Callee can send UDP and can only receive UDP receive TCP start **PROXY** Case 4: Caller is behind a proxy firewall that does get address not allow UDP to (start) be received, but can send UDP. Callee can send and receive UDP accept connect message connect **CALLEE** A client that can send UDP callee IP get address (start) echo connect message accept : from caller UDP from caller UDP from callee echo talk TCP (case 1) or UDP TCP to caller (case 4) to callee no no no hangup? hangup? hangup? yes yes

Case 1: Caller is behind a firewall that does not allow UDP to

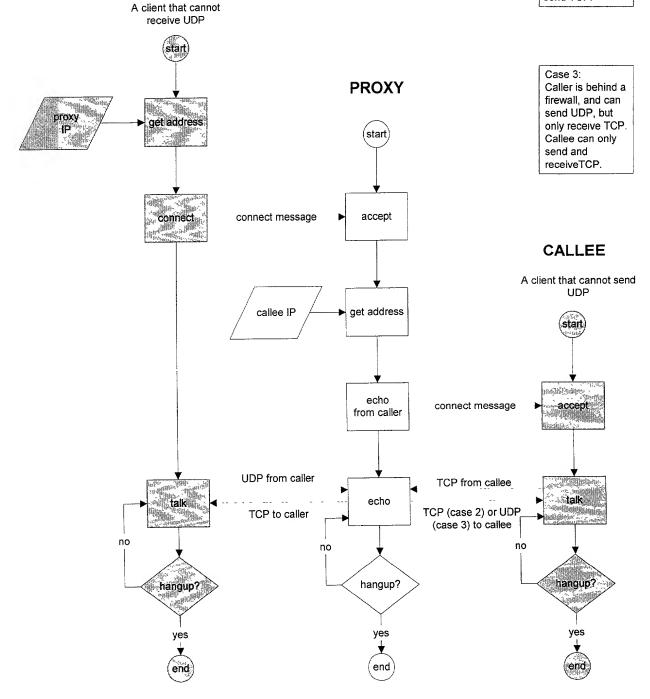
FIG. 5

end

Ł.E

# Caller is behind a firewall, and can send UDP, but only receive TCP. Callee can receive UDP, but only send TCP.

Case 2:



## Case 5: Caller can receive UDP, but only send TCP. Callee can send UDP, but only receive TCP.

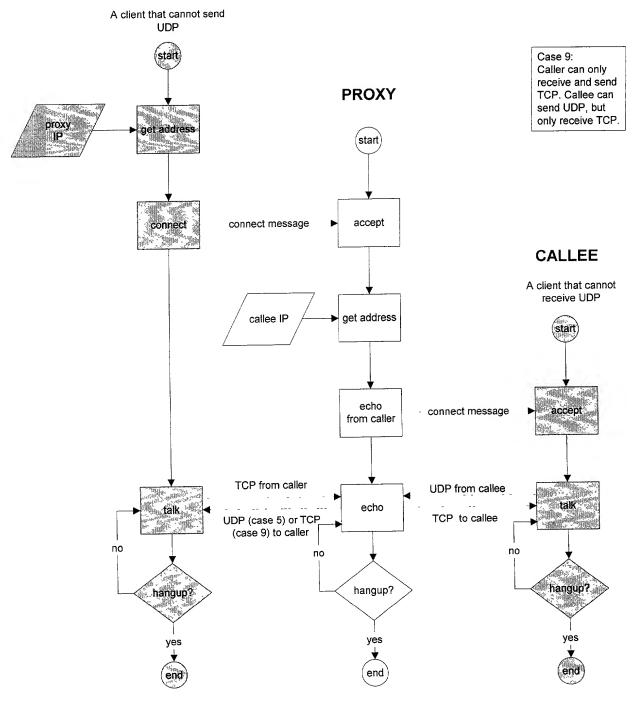


FIG. 7

## **CALLER**

A client that cannot send

Case 6: Caller and Callee can receive TCP, but cannot send UDP.

Case 7: UDP, but cannot

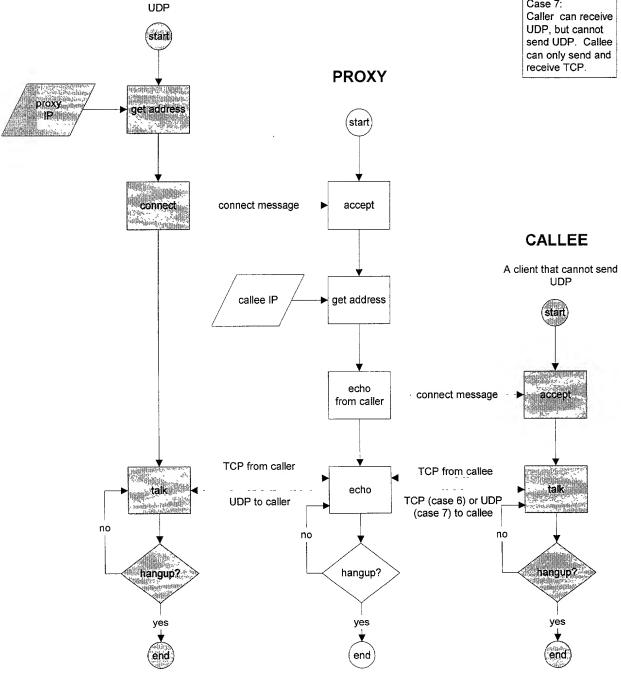
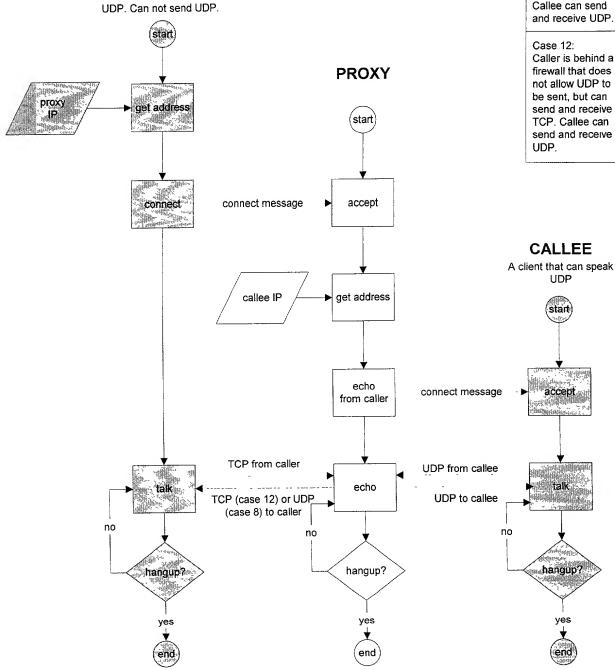


FIG. 8

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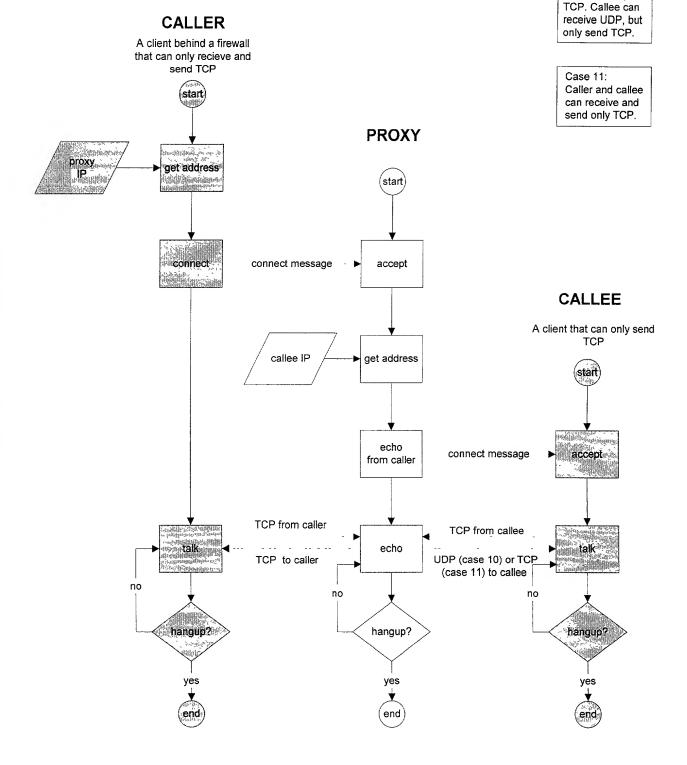
## **CALLER** behind a firewall that limits



send TCP and

Case 8: Caller is behind a firewall that does not allow UDP to be sent, but can

FIG. 9



Case 10: Caller can receive and send only

FIG. 10

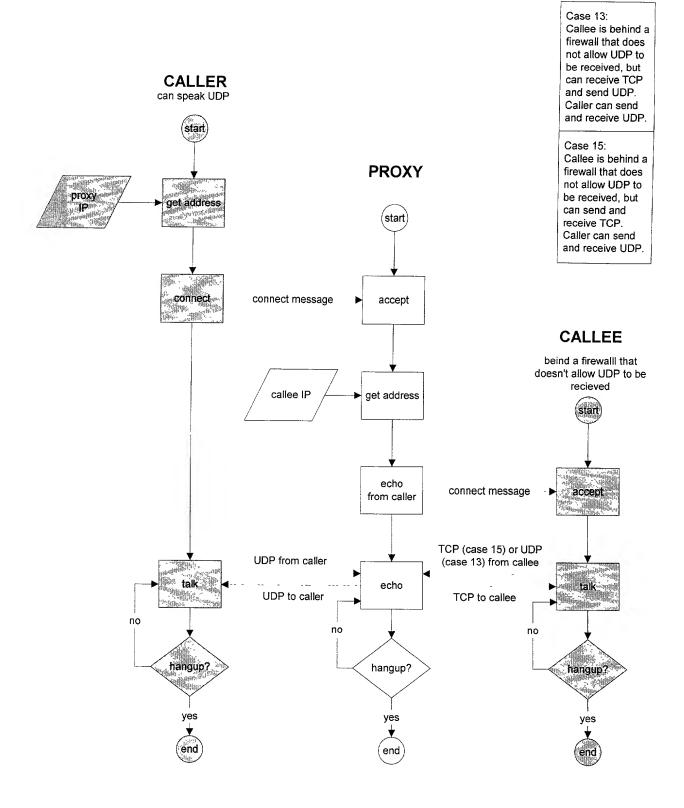
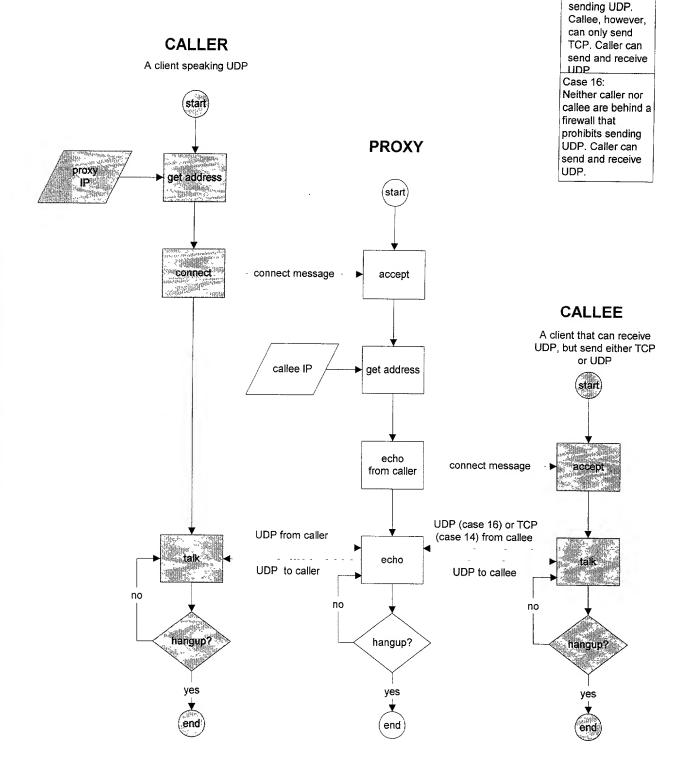


FIG. 11



Case 14: Caller is not behind a firewall that contrains

FIG. 12